Claims

What is claimed is:

1. A method of maintaining a constant ground speed of a work machine having an engine, powertrain, and at least one electronic control module (ECM), the method comprising;

sensing a parameter indicative of the ground speed of the work machine and responsively producing a signal indicative of the actual ground speed;

providing a predetermined maximum ground speed of the work machine;

receiving the signal indicative of the actual ground speed and the predetermined maximum ground speed of the work machine by the at least one ECM;

applying an algorithm to determine desirable RPM of the engine of the work machine; and

modulating engine RPMs to the desirable engine RPMs to maintain a constant ground speed of the work machine.

- 2. The method of claim 1, wherein sensing the parameter indicative of ground speed includes sensing torque converter output speed.
- 3. The method of claim 1, wherein sensing the parameter indicative of ground speed includes sensing transmission output speed.
- 4. The method of claim 1, wherein sensing the parameter indicative of ground speed includes sensing axle speed.

- 5. The method of claim 1, wherein sensing the parameter indicative of ground speed includes sensing the ground speed of the work machine.
- 6. The method of claim 1, wherein applying the algorithm includes:

determining a minimum high idle RPM of the work machine; calculating a RPM of the engine of the work machine using the parameter indicative of ground speed of the work machine and the predetermined maximum ground speed of the work machine;

determining lowest RPM value between the minimum high idle RPM and the calculated RPM of the engine; and

generating a modulated fuel signal based on the lowest RPM value.

7. A method of maintaining a constant ground speed of a work machine having an engine, powertrain, and at least one electronic control module (ECM), the method comprising;

sensing torque converter output speed and producing a torque converter output signal indicative of the torque converter output speed;

sensing engine output speed and producing an engine output signal indicative of the engine output speed;

receiving the torque converter output signal and the engine output signal and producing a torque converter speed ratio by the at least one ECM;

providing a predetermined torque converter output speed indicative of the maximum ground speed of the work machine; and

determining a desirable engine RPM in response to the torque converter speed ratio and the predetermined torque converter output speed that is indicative of the maximum ground speed of the work machine.

- 8. The method claim 7, wherein providing the predetermined torque converter output speed includes prescribing the predetermined torque output speed by at least one of on-board and remotely.
- 9. The method of claim 8, wherein determining a desirable engine RPM includes;

determining a minimum high idle RPM of the work machine;
calculating a RPM of the engine of the work machine using the
predetermined torque converter output speed and the torque converter speed ratio;
determining the lowest RPM value between the minimum high
idle RPM and the calculated RPM of the engine; and

generating a modulated fuel signal based on the lowest RPM value.

10. A method of maintaining a constant ground speed of a work machine having an engine, powertrain, and at least one electronic control module (ECM), the method comprising;

sensing a parameter indicative of the ground speed of the work machine and responsively producing a signal indicative of the actual ground speed;

providing a predetermined maximum ground speed of the work machine;

receiving the signal indicative of the actual ground speed and the predetermined maximum ground speed of the work machine by the at least one ECM;

modulating the fuel to the engine to maintain a constant ground speed of the work machine.